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WHAT IS CLAIMED IS

1. A device to recuperate the energy produced during the recoiling of a weapon provided with a hydraulic fluid power circuit, wherein said device comprises an energy recuperating cylinder activated by the recoil of said weapon, a double-acting cylinder comprising two chambers separated by a piston, a first chamber of said cylinder being connected to said hydraulic power circuit of said weapon, said piston of said cylinder pushing said hydraulic fluid in said circuit into a storage accumulator when said weapon recoils.
2. A device according to Claim 1, wherein said energy recuperating cylinder comprises a second chamber connected to a recoil mechanism that ensures pressurising of said mechanism.
3. A device according to Claim 2, wherein the recuperating cylinder incorporates a rod integral with said piston, said rod pushed by said weapon during its counter recoil.
4. A device according to Claim 3, wherein said energy recuperating cylinder is connected to said weapon's hydraulic power circuit by means of a main piping divided into at least two secondary pipings provided with first and second valves allowing the passage of a fluid in one direction only, one of said secondary pipings connecting said main piping to said storage accumulator and the other one of said another secondary piping connecting said main piping to a supercharging accumulator.
5. A device according to Claim 4, wherein said first valve is placed between said supercharging accumulator and said main piping, and said second valve is placed between said main piping and said storage accumulator, said first valve being closed and said second valve open when said weapon recoils.
6. A device according to Claim 5, wherein said storage accumulator supplies said weapon's hydraulic circuit with pressurised fluid via a service piping.

7. An energy recuperation device according to Claim 6,
wherein said second chamber of said recuperating cylinder is
connected to a nitrogen chamber of said recoil mechanism.
8. An energy recuperation device according to Claim 6,
5 wherein said second chamber of said recuperating cylinder is
connected to said recoil mechanism via an oil circuit
delimited on said nitrogen chamber side of said recoil
mechanism by a free piston which separates said nitrogen and
said oil circuit.
- 10 9. An energy recuperation device according to Claim 6,
wherein said second chamber of said recuperating cylinder is
connected to said oil chamber of said recoil mechanism.